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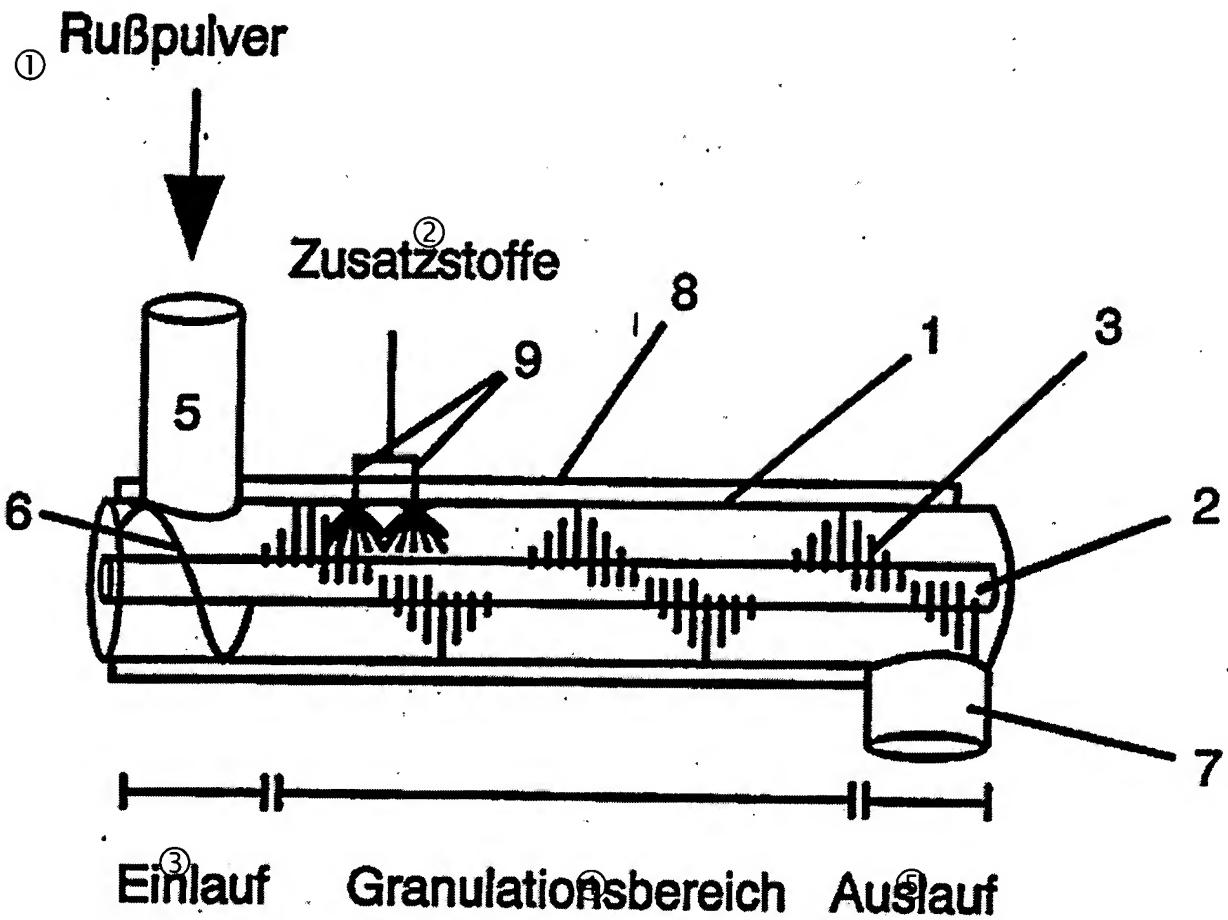


Figure 1

Key:

- 1 Carbon black powder
- 2 Additives
- 3 Inlet
- 4 Granulation zone
- 5 Outlet

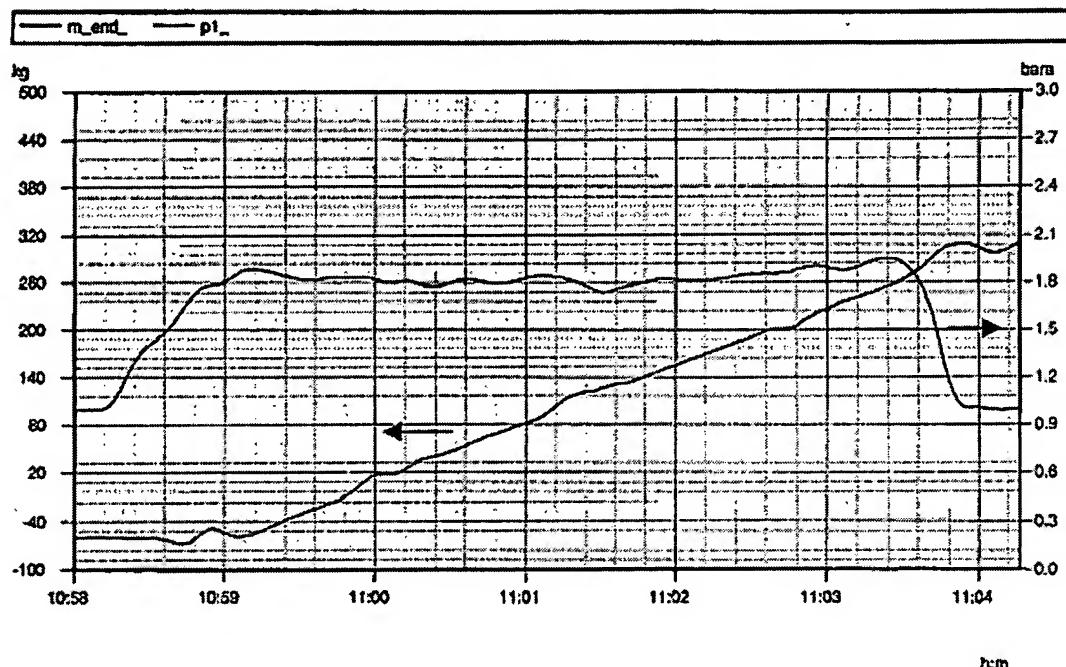


Figure 2. Course of pressure and transport amount in dense-flow transport over time for the carbon black pellets 2 in accordance with the invention with an air velocity of 5.6 m/sec, a solids-transport air ratio of 20 kg/kg and a transport capacity of 4.6 t/h.

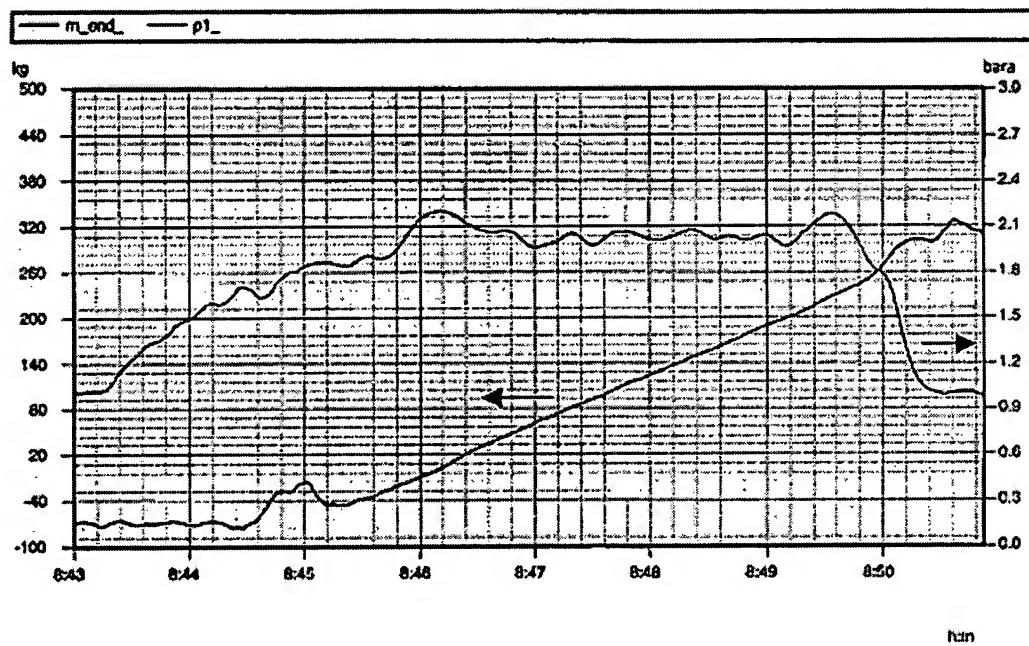


Figure 3. Course of pressure and transport amount in dense-flow transport over time for the comparison carbon black pellets 1 in accordance with the invention with an air velocity of 6.6 m/sec, a solids-transport air ratio of 14 kg/kg and a transport capacity of 3.8 t/h.

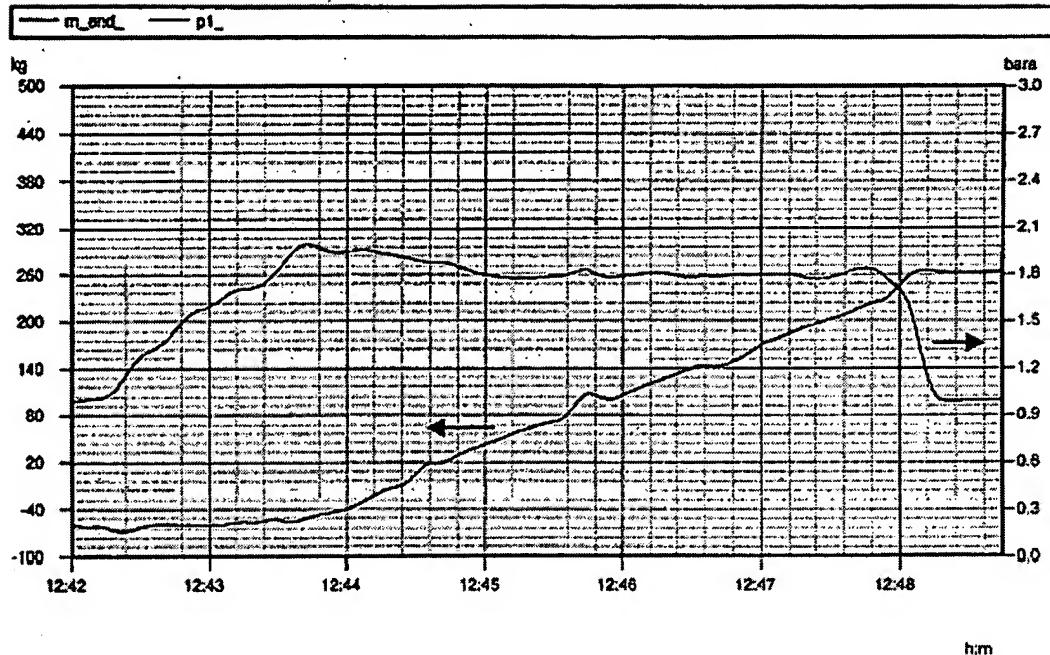


Figure 4. Course of pressure and transport amount in dense-flow transport over time for the carbon black pellets 2 in accordance with the invention with an air velocity of 4.8 m/sec, a solids-transport air ratio of 20 kg/kg and a transport capacity of 4.0 t/h.

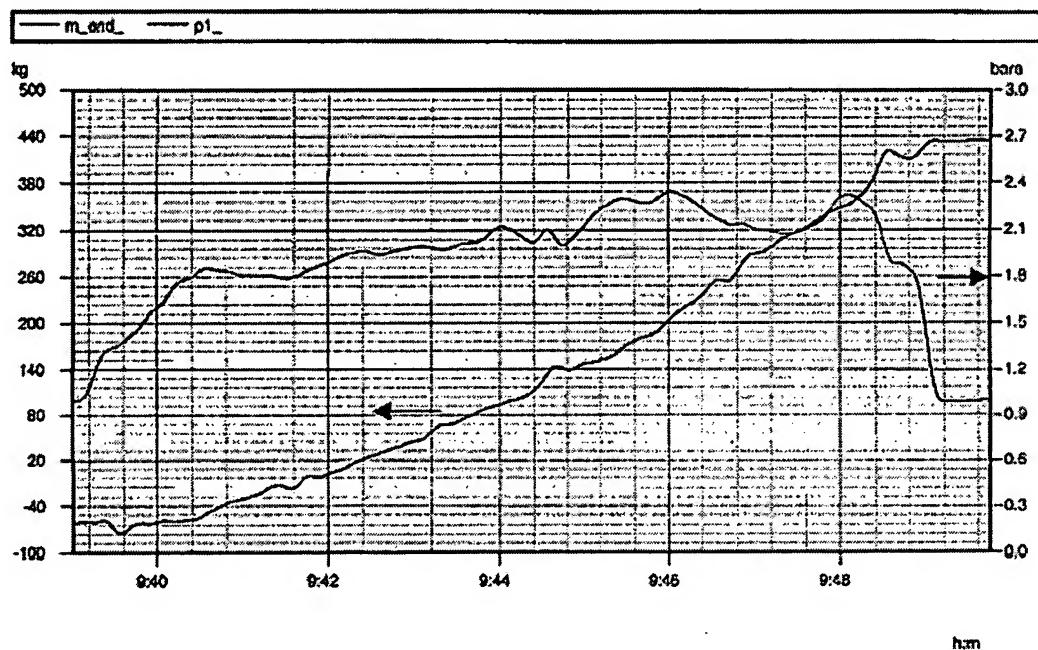


Figure 5. Course of pressure and transport amount in dense-flow transport over time for the comparison carbon black pellets 1 in accordance with the invention with an air velocity of 5.5 m/sec, a solids-transport air ratio of 18 kg/kg and a transport capacity of 4.0 t/h.

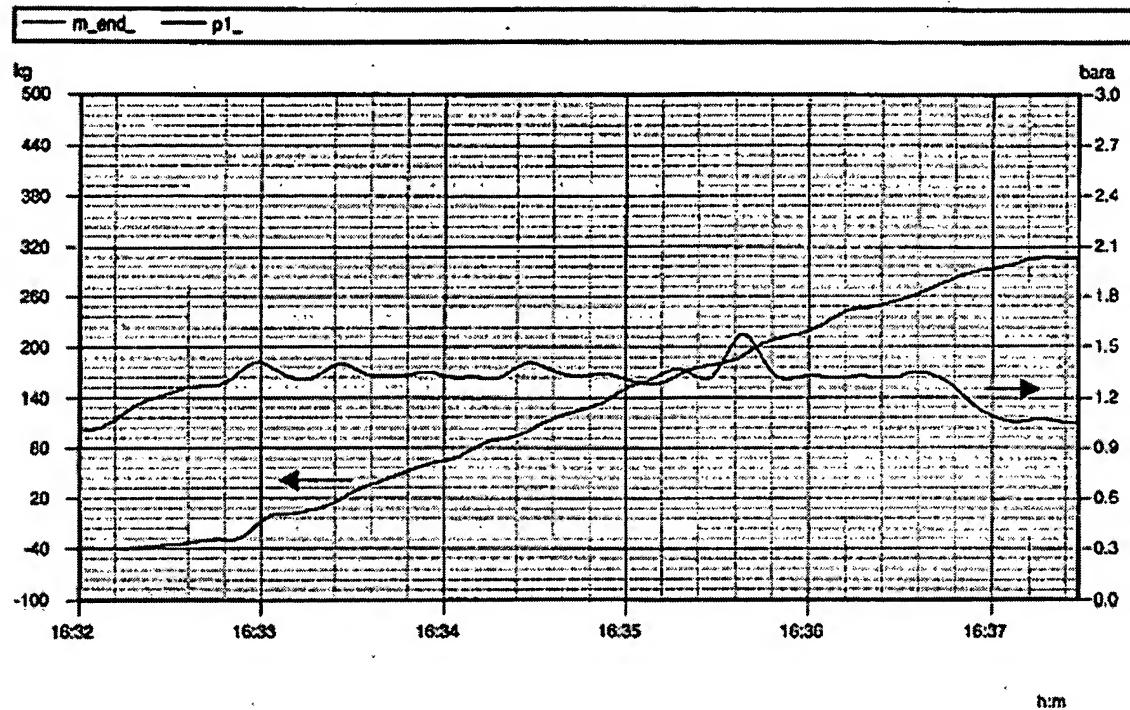


Figure 6. Course of pressure and transport amount in thin-stream transport over time for the carbon black pellets 2 in accordance with the invention with an air velocity of 15.7 m/sec, a solids-transport air ratio of 7 kg/kg and a transport capacity of 4.4 t/h.

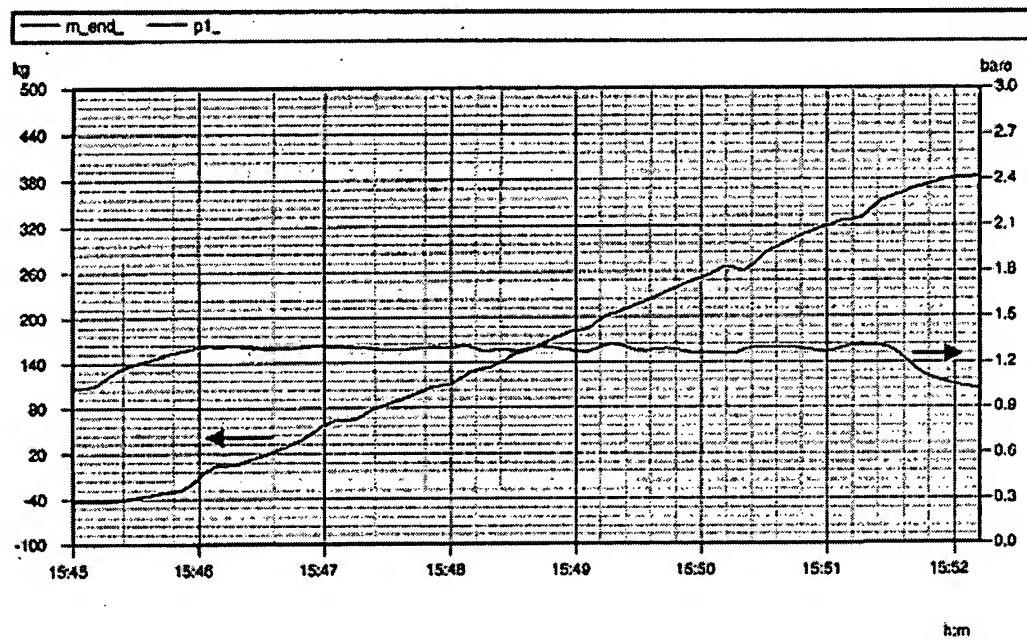


Figure 7. Course of pressure and transport amount in thin-stream transport over time for the comparison carbon black pellets 1 in accordance with the invention with an air velocity of 16.0 m/sec, a solids-transport air ratio of 6 kg/kg and a transport capacity of 3.8 t/h.

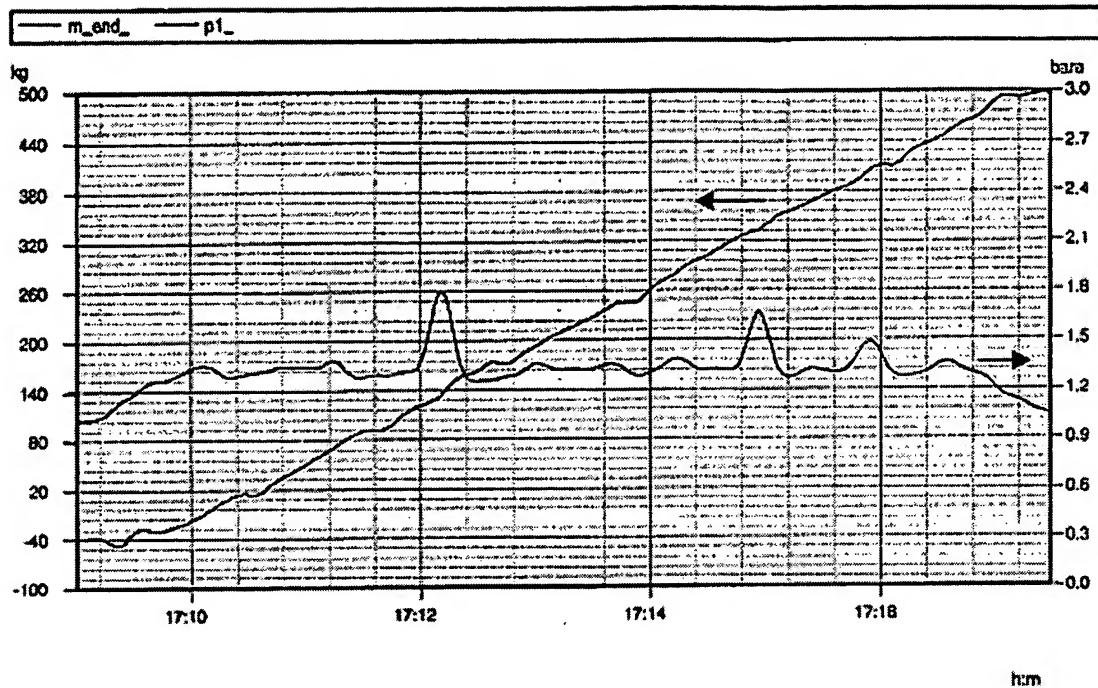


Figure 8. Course of pressure and transport amount in thin-stream transport over time for the carbon black pellets 3 in accordance with the invention with an air velocity of 15.8 m/sec, a solids-transport air ratio of 7 kg/kg and a transport capacity of 4.2 t/h.

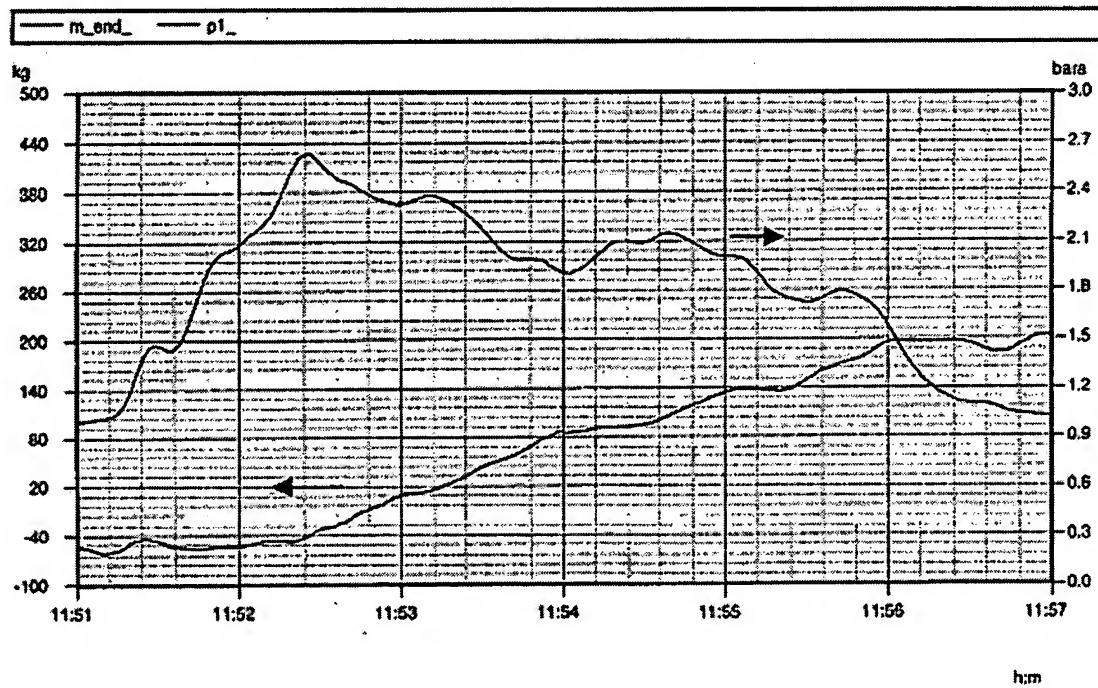


Figure 9. Course of pressure and transport amount in thin-stream transport over time for the comparison carbon black pellets 5 in accordance with the invention with an air velocity of 7.0 m/sec, a solids-transport air ratio of 11 kg/kg and a transport capacity of 3.1 t/h.

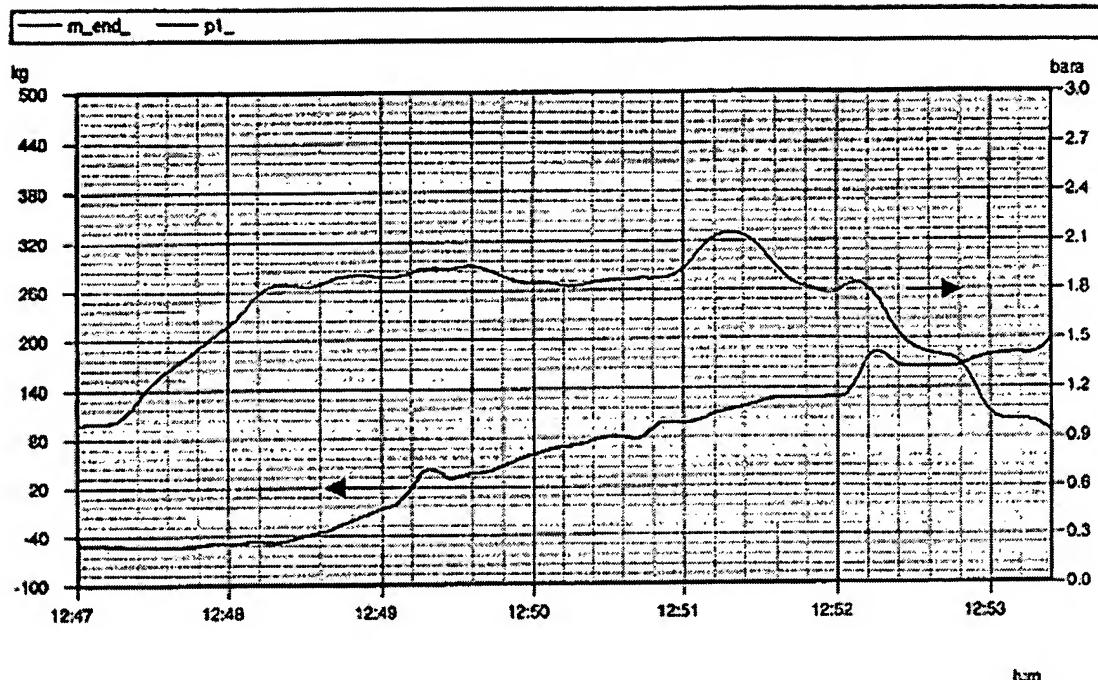


Figure 10. Course of pressure and transport amount in thin-stream transport over time for the carbon black pellets 4 in accordance with the invention with an air velocity of 5.8 m/sec, a solids-transport air ratio of 14 kg/kg and a transport capacity of 3.2 t/h.

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